

APPLICATION NO.

10/695,456

SUITE 200

21254

United States Patent and Trademark Office

FILING DATE 10/29/2003

8321 OLD COURTHOUSE ROAD

VIENNA, VA 22182-3817

05/26/2006 MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC UNITED STATES DEPARTMENT OF COMMERC United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

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ATTORNEY DOCKET NO.	CONFIRMATION NO
K06-163174M/AT	4566
EXAM	INER
LUM VANNUCO	I, LEE SIN YEE

PAPER NUMBER

ART UNIT 3611

DATE MAILED: 05/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Kaname Joushita

		Application	No.	Applicant(s)		
		10/695,456		JOUSHITA, KANAME		
	Office Action Summary	Examiner		Art Unit	_	
		Lee Lum		3611		
	The MAILING DATE of this communica	ntion appears on the c	over sheet with the c	orrespondence address	,	
Period fo						
THE I - External after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply will reply received by the Office later than three months after adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event ication. days, a reply within the statuto ory period will apply and will el, by statute, cause the applica	, however, may a reply be tim ry minimum of thirty (30) day: xpire SIX (6) MONTHS from tion to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) filed	on 20 March 2006.				
2a)	☐ This action is FINAL . 2b)☑ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) 1-4,6-10,12-15 and 17-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 2,3,6-10,12-15 and 17-21 is/are allowed. Claim(s) 1,4,24 and 25 is/are rejected. Claim(s) 22 and 23 is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
10)	The specification is objected to by the The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the oath or declaration is objected to be	a) accepted or b) con to the drawing(s) be ne correction is required	held in abeyance. See lif the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d	l).	
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim fo All b) Some * c) None of: 1. Certified copies of the priority do 3. Copies of the certified copies of application from the International See the attached detailed Office action	ocuments have been ocuments have been the priority documen al Bureau (PCT Rule	received. received in Applicati ts have been receive 17.2(a)).	ion No ed in this National Stage	*	
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or P	D-948) FO/SB/08)	I) Interview Summary Paper No(s)/Mail D) Notice of Informal F) Other:			

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DETAILED ACTION

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1. A RCE and Amendment were filed 3/20/06, the latter including new Claims 22-25.

2. The drawings are objected to because in relevant figures, the "elastic member 45" is not correctly depicted with alternately-heavy cross-hatching. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended."

If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency.

Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

(This issue was provided in previous Office Actions, and has yet to be addressed)

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3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In the last paragraph, "wherein, if at least one of said first and second members comprises a circumferentially extending projection, then a radially extending surface of the...projection contacts the first and second members" is unclear because this indicates that the members "contact" themselves.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4, 24 and 25 (4 as best understood) are rejected under 35 U.S.C. 103(a) as being unpatentable over Oka et al 6782771 in view of Hein 3313125.

Oka discloses an electric power steering device for transmitting rotation of electric motor 6 to a steering mechanism (fig 3) through small gear 71, and large gear 72, comprising

First member 81 received on rotary shaft 60 of the motor, via an aperture (unidentified, inherent),

Second member 82 disposed at one end (fig 3) of the small gear, via a serrated hole (unidentified, inherent),

Elastic member 83 interposed between the members.

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The reference does not disclose the elastic member as having moduli, while Hein shows a similar drive configuration with first and second members, including

Elastic member 12 having a first elastic modulus corresponding to a torsion angle between the members that is less than a threshold, and a second elastic modulus corresponding to a torsion angle more than, or equal to, the threshold, the first modulus being less than the second

as provided in c3, ln 22-54,

the elastic member comprising axially-extending plate-shaped portions (thin, planar, end portions, as broadly and reasonably interpreted),

First member 10, and second member 11, comprising circumferentially-extending projections 15 and 16, respectively,

Wherein (since the first and second members include circumferentially-extending projections), radially-extending surface of the projections contact the elastic member, as best understood, when low torque is applied to either of the members.

It would have been obvious to one with ordinary skill in the art at the time the invention was made to include this arrangement, as shown in Hein, to provide increased shock absorption during application of varying torque between these components, thus decrease wear and noise. Inclusion of an elastic member between moving parts is well-known to achieve these objectives.

5. ALLOWABLE SUBJECT MATTER

- a. Claims 2, 3, 6-10, 12-15 and 17-21 are allowable because prior art does not disclose the device described above further comprising, *inter alia*, the elastic member as including a projection having a bifurcated structure defining a slit portion (Claim 3).
- b. Claims 22 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. prior art does not disclose the device described above further comprising, *inter alia*, the elastic member as including a circumferentially-extending projection.

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6. <u>RESPONSE TO REMARKS</u>

Examiner reiterates rejections of several claims employing Oka in combination with Hein, as provided above.

Applicant's arguments have been considered, and with respect to the rejected Claims, are nonpersuasive. Hein's mulit-piece torque coupling includes "first 10, and second 11, members having circumferentially-extending projections 15,16". It would have been obvious to include Hein's flexible multi-piece arrangement, in place of Oka's one-piece member, to produce varying torque characteristics. This objective is clearly stated in the first paragraph of Hein. And, when (at least) low torque is applied to this configuration, the radially-extending surfaces of the projections contact the elastic member 12, as can be envisioned in fig 2.

Applicant is asked to note allowable subject matter, and the drawing objections.

7. Communication with USPTO/Examiner

Any inquiry concerning this communication, or others, should be directed to Ms. Lum at 571 2726649, M-F, 9-5. If attempts to reach the examiner are unsuccessful, her supervisor, Ms. Lesley Morris is at 571 2726651. Our fax number is 703 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for unpublished applications: private PAIR only, for published applications: private or public PAIR. For more information re PAIR: http://pair-direct.uspto.gov. Questions re private PAIR: contact the Electronic Business Center (EBC) at 866 217-9197.

Ms. Lee S. Lum

Examiner 5/24/06